



Docket No.: 21663-00193-US  
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:  
Sidhakar Y. Babu, et al.

Application No.: 09/915,515

Filed: July 27, 2001

For: THREE DIMENSIONAL STRUCTURE OF  
PARAMYXOVIRUS HEMAGGLUTININ-  
NEURAMINIDASES AND USE THEREOF

Group Art Unit: N/A

Examiner: Not Yet Assigned

#9/K.T.  
11/20  
I.D.S

**INFORMATION DISCLOSURE STATEMENT (IDS)**

Commissioner for Patents  
Washington, DC 20231

Dear Sir:

Pursuant to 37 CFR 1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed before the mailing date of a first Office Action on the merits as far as is known to the undersigned.

A copy of each reference on PTO/SB/08 is attached.

A concise explanation of relevance of the items listed on form PTO/SB/08 is:

☐ not given

☐ given for each listed item

☐ given for only non-English language listed items

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[ ] in the form of an English language copy of a Search Report from a foreign patent office, issued in a counterpart application, which refers to the relevant portions of the references

While the information and references disclosed in this Information Disclosure Statement may be "material" pursuant to 37 CFR 1.56, it is not intended to constitute an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

The Commissioner is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 22-0185, under Order No. 21663-00193-US. A duplicate copy of this paper is enclosed.

Dated: 11-18-02

Respectfully submitted,

By 

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PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

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<b>Substitute for form 1449A/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)			<b>Complete if Known</b>		
			<b>Application Number</b>	09/915,515	
			<b>Filing Date</b>	July 27, 2001	
			<b>First Named Inventor</b>	Sidhakar Y. Babu	
			<b>Art Unit</b>	N/A	
			<b>Examiner Name</b>	Not Yet Assigned	
<b>Sheet</b>	1	<b>of</b>	1	<b>Attorney Docket Number</b>	21663-00193-US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
	BA	WO 97/09345	03/13/1997			

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See attached Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the application number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	CA	Toru Takimoto et al., "CRYSTALLIZATION OF NEWCASTLE DISEASE VIRUS HEMAGGLUTININ-NEURAMINIDASE GLYCOPROTEIN", Virology Vo. 270, no. 1, April 2000, pgs. 208-214, XP-002211490	
	CB	Mark von Itzstein et al., "A STUDY OF THE ACTIVE SITE OF INFLUENZA VIRUS SIALIDASE: AN APPROACH TO THE RATIONAL DESIGN OF NOVEL ANTI-INFLUENZA DRUGS", J. Med. Chem, Vol. 39, no. 2, 1996, pgs. 388-391, XP-002211491	
	CC	Epa V. Chandana, "MODELING TH PARAMYXOVIRUS HEMAGGLUTININ-NEURAMINIDASE PROTEIN", Proteins: Structure, Function, and Genetics, Vol. 29, no. 3, November 1997, pgs. 264-2281, XP-002211492	
	CD	Susan Crennell et al., "CRYSTAL STRUCTURE OF THE MULTIFUNCTIONAL PARAMYXOVIRUS HEMAGGLUTININ-NEURAMINIDASE, Nature Structural Biology, Vol. 7, no. 11, November 2000, pgs. 1068-1074, XP008007307	
	CE	Joseph N. Varghese, "THREE-DIMENSIONAL STRUCTURE OF THE COMPLEX OF 4-GUANIDINO-Neu5Ac2en AND INFLUENZA VIRUS NEURAMINIDASE", Protein Science, Vol. 4, no. 6, 1995, pgs. 1081-1087, XP008007329	

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<b>Examiner Signature</b>		<b>Date Considered</b>	
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